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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No.: CTCE/BBMP/W.No.07/KRIDL/CEMENT/2013-14

Date: 15.02.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Proposed Construction of additional building of chock watch and ward building in Ward No. 07 (Byatarayanapura), Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/301/2013-14 Dated: 13.02.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.50 %	-

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Assistant Executive Engineer,
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Job No.: CTCE/BBMP/W.No.07/KRIDL/SAND/2013-14 : 15.02.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Proposed Construction of additional building of chock watch and ward building in Ward No. 07 (Byatarayanapura), Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/301/2013-14 Dated: 13.02.2014

Date of Testing : 15.02.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	4.10	4.10	95.9	90-100
2.36	269	13.45	17.55	82.5	75-100
1.18	492	24.60	42.15	57.9	55-90
600 Micron	421	21.05	63.20	36.8	35-59
300 Micron	483	24.15	87.35	12.7	8-30
150 Micron	157	7.85	95.20	4.8	0-10

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Job No.: CTCE/BBMP/W.No.07/KRIDL/AGG/2013-14 : 15.02.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Proposed Construction of additional building of chock watch and ward building in Ward No. 07 (Byatarayanapura), Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/301/2013-14 Dated: 13.02.2014

Date of Testing : 15.02.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	994	3.91	3.91	96.09	95-100
20	16352	64.38	68.29	31.71	30-70
10	5216	20.54	88.83	11.17	10-35
4.75	2418	9.52	98.35	1.65	0-5

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TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Proposed Construction of additional building of chock watch and ward building in Ward No. 07 (Byatarayanapura), Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/301/2013-14 Dated: 13.02.2014

Date of Testing : 15.02.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	192	3.8	3.8	96.16	95-100
10	3218	64.4	68.2	31.80	25-55
4.75	1524	30.5	98.7	1.32	0-10

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Job No.: CTCE/BBMP/W.No.07/KRIDL/ STEEL/2013-14 22.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Proposed Construction of additional building of chock watch and ward building in Ward No. 07 (Byatarayanapura), Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/301/2013-14 Dated: 13.02.2014
Date of Test	:	22.03.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	511	545	12.75	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.07/KRIDL/ STEEL/2013-14 22.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Proposed Construction of additional building of chock watch and ward building in Ward No. 07 (Byatarayanapura), Kodigehalli Sub Division, BBMP, Bangalore.
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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	518	549	13.15	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/KRIDL/ STEEL/2013-14 22.03.2014

TEST REPORT ON REINFORCEMENT STEEL

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Date of Test	:	22.03.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	521	553	13.35	O.K	O.K

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Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	20	2.47	525	558	13.70	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/KRIDL/CUBE/2013-14 24.04.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Proposed Construction of additional building of chock watch and ward building in Ward No. 07 (Byatarayanapura), Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/301/2013-14 Dated: 13.02.2014

Sample ID : RCC Column Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2014	24.04.2014	8.243	470.9	20.93
2	27.03.2014	24.04.2014	8.329	487.5	21.67
3	27.03.2014	24.04.2014	8.437	504.4	22.42

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Job No.: CTCE/BBMP/W.No.07/KRIDL/CUBE/2013-14 04.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Proposed Construction of additional building of chock watch and ward building in Ward No. 07 (Byatarayanapura), Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/(KOD.SUB.DIV)/301/2013-14 Dated: 13.02.2014
Sample ID	: RCC Roof Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2014	04.04.2014	8.148	348.7	15.50
2	28.03.2014	04.04.2014	8.253	369.4	16.42
3	28.03.2014	04.04.2014	8.379	383.2	17.03

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